SELECT THE AREA OF PART TO BE TREATED

SELECTING THE DESIRED

MAGNITUDE OF COMPRESSION

AND

RESIDUAL STRESS DISTRIBUTION

EXERTING PRESSURE AGAINST THE SURFACE OF THE SELECTED REGION, THE PRESSURE BEING APPLIED IN A SELECTED PATTERN ALONG THE SURFACE TO FORM ZONES OF DEFORMATION HAVING A DEEP LAYER OF COMPRESSIVE STRESS

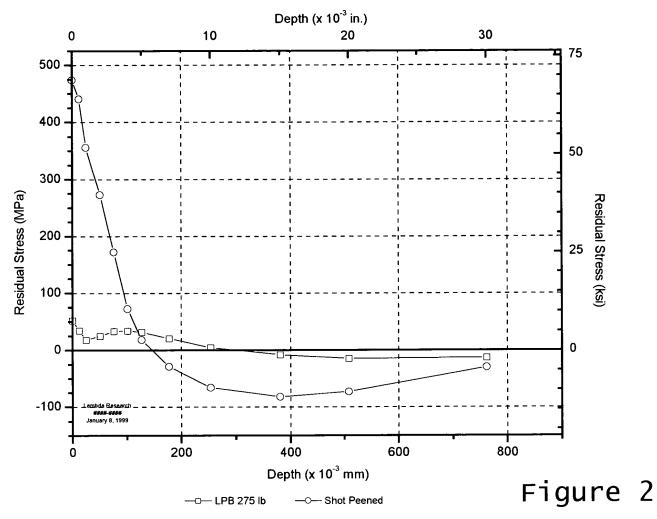
VARYING THE PRESSURE BEING EXERTED AGAINST

THE SURFACE TO PRODUCE THE DESIRED

RESIDUAL STRESS DISTRIBUTION AND MAGNITUDE OF COMPRESSION

WITHIN THE SURFACE

LONGITUDINAL RESIDUAL STRESS DISTRIBUTION



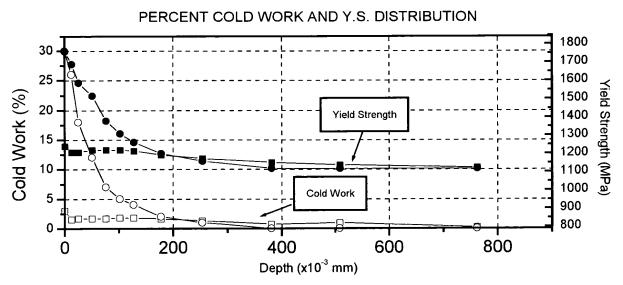
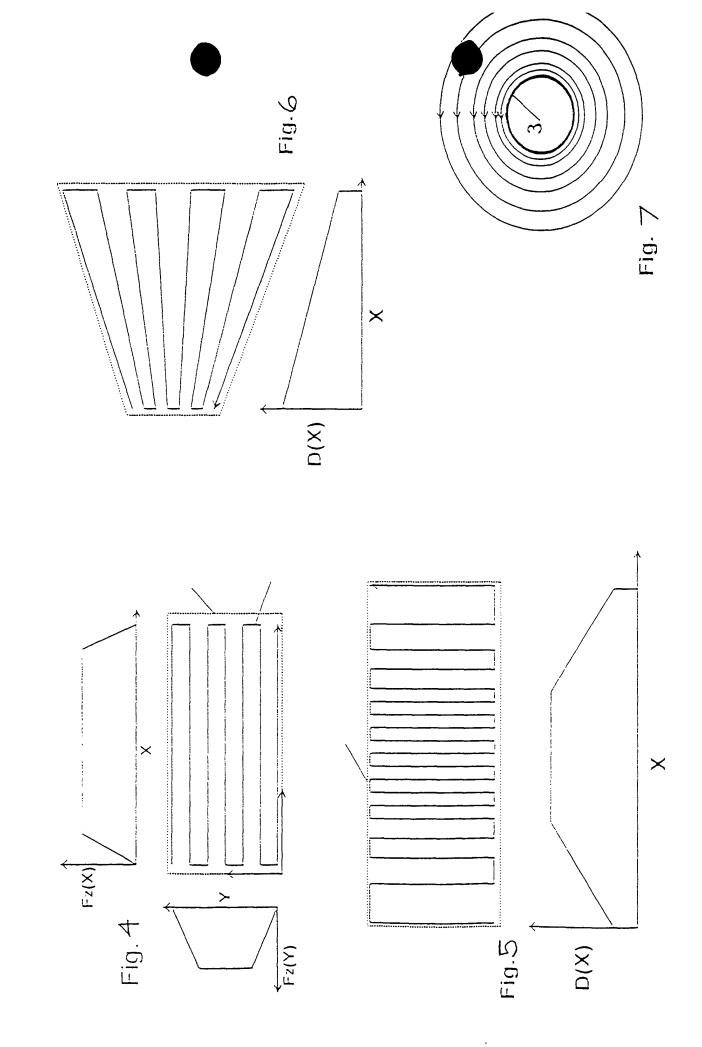


Figure 3



RESIDUAL STRESS DISTRIBUTION

